

On Solutions of the Equation $\frac{d^2x}{dt^2} = F(x, \frac{dx}{dt})$, by
A. N. Cherkasov, 13 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Matemat,
No 5 (12), 1959, pp 208-218. 9092649

MDF C-119

Sci

171, 684

Oct 61

On Non-Oscillation of Solutions of Nonlinear
Third and Fourth Order Differential Equations,
by E. S. Chichkin, 4 pp.

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pp 219-221. CIA 9079403

Morris D Friedman C-120

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On the Growth of the Solution of a Class of
Systems of Volterra Type Integral Equations,
by E. L. Gol'dengershel', 9 pp.

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No 6(13), 1959, pp 38-43.

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Petrov, A. Z., Katiorodov, V. R., and Abdulla, V. N.
THE CLASSIFICATION OF GRAVITATIONAL FIELDS
OF GENERAL TYPE BY GROUPS OF MOTIONS. I
(Klassifikatsiya Poley Tyagoteniya Obshchego vida po
Grupparam Dvisheni, I). Apr 61 [16]p. 15 refs.
RTS 1754.

Order from OTS or SLA \$1.60

61-19703

Trans. of Izvestiya Vysshykh Uchebnykh Zavedeniy.
Matematika (USSR) 1959, no. 6(13) p. 118-130.

DESCRIPTORS: *Gravity, *Relativity theory.
*Groups (Mathematics), *Motion.

A survey.

(Physics--Theoretical, TT, v. 6, no. 1)

61-19703

- I. Petrov, A. Z.
- II. Katiorodov, V. R.
- III. Abdulla, V. N.
- IV. RTS-1754
- V. Department of Scientific
and Industrial Research
(Oz. Brit.)

161813

Office of Technical Services

Sul'din, A. V. WIENER'S MEASURE AND ITS APPLICATIONS TO APPROXIMATION METHODS, PT. I. [1961] (26)p. 4 refs. Order from OTS or SLA \$2.60 61-14925 Trans. of Izvestiya Vysshikh Uchebnykh Zavedeniy. Matematika (USSR) 1959, no. 6(13) p. 145-158. DESCRIPTORS: *Measure theory, Numerical analysis, Integration. (Mathematica, TT, v. 6, no. 1)	61-14925 1. Title: Wiener's measure 1. Sul'din, A. V. 161766 Office of Technical Services
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On the Problem of Stability of Relay Systems
For Automatic Control, by Yu. I. Alinov.

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No 1, 1960, pp 3-10. 9087322

NASA TT F-8140

Sci

6 Mar 62

US GOV'T ONLY

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4 pp.

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Vol XXI, No 5
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Cherkasov, I. D.
INVERSION OF INTEGRO-DIFFERENTIAL OPERA-
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12 refs.
Order from MDF \$8.50

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p. 223-235.

148,612

61-12544

1. Operators(Mathematics)--
Theory

2. Title: Green functions

1. Cherkasov, I. D.

II. MDF C-124

III. Friedman, Morris D.,
Inc., West Newton, Mass.

Office of Technical Services

(NAT. ARCHIVES, COLLEGE PARK, MD)

The Equivalence of Certain Homological Determinations
in Topology, by M. F. Bokshtein, 25 pp. POST ED. TED

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FTD-MT-63-348
~~Y~~GOV'T USE ONLY

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No 4(17), 1960, pp 36-48.
Amer Math Soc

Sci - Math
May 64

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Simultaneous Approximation of Functions and
Their Derivatives on the Whole Real Axis,
by A. Timan,
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Vol 24, 1960, pp 421-430.
Dept of Navy APL/JHU T-624

Sci-Math
Jan 71

On the Number of Classes of Ideals of a Real
Quadratic Field, by I. Sh. Slavutskiy, 6 pp.

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No 4 (17), 1960, pp 173-177.

MDF S-174

9093150

148 601

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Nov 61

Chichkin, Ye. S.
ON ONE NON-OSCILLATIONAL THEOREM FOR
THE LINEAR SELF-CONJUGATED DIFFERENTIAL
EQUATION OF FOURTH ORDER. [1960] [9]p. 4 refs.
Order from LC or SLA mi\$1.80, ph\$1.80 61-10636

Trans. of Izvestiya Vysshikh Uchebnykh Zavedeniy.,
Matematika (USSR) 1960, no. 4(17) p. 206-209.

An investigation is made of the equation

$$L[y] = \frac{d^4 y}{dx^4} + \frac{d}{dx} \left(p(x) \frac{dy}{dx} \right) + q(x)y = 0$$

with the continuous coefficients $p(x)$ and $q(x)$ in the
interval $[a, b)$.

(Mathematics, TT, v. 5, no. 8)

61-10636

1. Differential equations--
Analysis
1. Chichkin, Ye. S.

151457

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by L. M. Gluskin, 12 pp.
RUSSIAN, per, Iz Vysshikh Ucheb ~~M~~ Zaved Matemat,
No 6(19), 1960, pp 62-73.
Amer Math Soc

Sci - Math
May 64

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Hall -Bases of Finite Groups, by P. A. ~~Galek~~ Gol'berg,
10 pp.
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No 1(20), 1961, pp 36-43.
Amer Math Soc

Sci - Math
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(NY-6491)

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Kirillova, 20 pp.

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Matemat, No 2, Mar-Apr 1961, pp 41-53.

JPRS 9644

Sci - Math
Aug 61

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Boundary Problem for Linear Integro-
Differential Equations of Volterra Type for
Satisfying Boundary Conditions, by Yu. K.
Lando, 10 pp.

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MRB 1-140
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Sci
Nov 61

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The Circular Motions of Coupled Pendulums. II,
by V. S. Serebryakova, Ye. A. Barbashin, 9 pp.

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No 4, 1961, pp 112-118. 9667799

FTD-TT-62-1089

Sci-Math
Mar 63

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An Analogue of the Theorem of Laurent Schwartz,
by G. E. Silov,
RUSSIAN, per, Izv. VUZ Matematika, No 4, (23),
1961, pp 137-147.
Am Math Soc
Ser 2, Vol 60

May 67

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On the Solution of Equations in Functional
Derivatives, by A. N. Sorstnev,
RUSSIAN, per, Izv. VUZ Matematika, No 6, (25),
1961, pp 155-168.
Am Math Soc
Vol LIV, Ser 2

Jan 67

316,790

(NY-1880)

SOME PROBLEMS IN THE THEORY OF OPTIMUM
CONTROL, BY F. M. KIRILLOVA, 21 PP.

RUSSIAN, PER, IZ VYSS UCHEB ZAVED, MATEMATIKA,
NO 3, 1962, PP 407-50.

JPRS 14826

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An Indirect Control System, by R. A.
Spasskiy, 10 pp.

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JPRS 15600

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Oct 62

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Coordinate Spaces and Infinite Systems of Linear
Equations. II, by Y. I. Grihanov, 13 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved Matemat,
No 1 (32), 1963, pp 66-74. 9692085
DDC RSIC-140

Sci - Math & Data Process
Apr 64

253,311

Sarkova, N. V.
THE APPROXIMATE SOLUTION, BY THE METHOD
OF OSCILLATING FUNCTIONS, OF INTEGRO-DIF-
FERENTIAL EQUATIONS AND DIFFERENTIAL EQUA-
TIONS WITH LAGGING ARGUMENT. [1963] [18p]

Srefs

Order from OTS or SLA \$1.60

63-20188

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii,
Matematika (USSR) 1963, no. 1(32) p. 158-168.

DESCRIPTORS: *Numerical methods and procedures,
*Functions, *Integral equations, Integration, *Dif-
ferential equations, Time-lag theory, Numerical analy-
sis, Errors.

A method is presented which extends the application of
the method of oscillating functions to the solution of
integro-differential equations with lagging argument
(Mathematics, TT, v. 10, no. 10) (over)

63-20188

1. Title: Oscillating functions
1. Sarkova, N. V.

Office of Technical Services

Yakubov, I. T.

AN ASYMPTOTIC EXPRESSION FOR THE GENERALIZED LAGUERRE POLYNOMIALS. [1963] [7]p. 7 refs. Order from OTS or SLA \$1.10 63-18371

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii, Matematika (USSR) 1963, no. 1(32) p. 169-171.

DESCRIPTORS: *Polynomials, Numerical analysis.

A new asymptotic expression is presented for the generalized Laguerre polynomials. The expression is derived by studying a particular solution of the Schrodinger equation for large values of the index. (Translator)

(Mathematics, TT, v. 10, no. 10)

63-18371

1. Title: Schrodinger equation
1. Yakubov, I. T.

Office of Technical Services

Approximate Solution of Differential Equations With
Deviating Arguments, by N. V. Sharkova, 17 pp.

RUSSIAN, per, Iz Vysish Ucheb Zaved, Mate, No 3,
1963, pp 173-184. 9692126

FTD-TT-63-1034

Sci - Math & Data Proc

Apr 64

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Inequalities for Harmonic Polynomials, by
Ya. S. Bugrov.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved Matemat,
No 5, 1963, pp 12-23.
Navy Tr 3816
APL T988

Sci - Math & Data Proces
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On the Method of Successive Approximations, by
Ye. P. Glebov, A. A. Potapenko.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved Matemat,
No 5, 1963, pp 39-42.
NASA TT F-8739

Sci-Math

Jul 64

U.S. GOVERNMENT ONLY

262,888

On the Existence and Uniqueness of a Periodic
Solution to a Single Nonlinear Equation of a Hyperbolic
Type, by V. N. Karp,
RUSSIAN, per, Iz Vysishkh Ucheb Zaved Matemat,
No 5, 1963, pp 43-50,
NASA TT F-8737

Sci-Math

Jul 64

U.S. GOVERNMENT ONLY

262,891

Solution of a Second-Order Hyperbolic Differential
Equation by Reducing It to a System of Integral
Equations, by T. V. Chekmarev.

RUSSIAN, per, Iz Vysishikh Ucheb Zaved Matemat,
No 5, 1963, pp 146-152.

Navy Tr 3837/APL T1026

NASA-TT-F-8738 (Government Use Only.)

Sci - Math & Data Process

Jul 64

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On a Differential-functional Equation in
Partial Derivatives, by V. R. Petukhov.
RUSSIAN, per, Iz VUZ, Matemat, No 1(38), 1964,
pp 96-99.
Dept of Navy Tr 4337 /APL No T-1480

Sci - Math
Nov 65

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Two Theorems of the Theory of a Linear
Homogeneous Differential Equation, by
F. A. Mikhailov.
RUSSIAN, per, Iz Vysishkh Ucheb Zaved Matemat,
No 2, 1964, pp 120-126.
Navy Tr 3879/APL T1062

Sci - Phys
Sep 64

266,291

Criteria for the Boundedness of Solutions
of Systems of Ordinary Differential Equations,
by I. M. Vlasov.
RUSSIAN, per, Iz VUZ, Matemat., No 3(40),
1964, pp 1964, pp 39-42.
Dept of Navy Tr 4351/APL No T-1515

Sci - Math
Dec 65

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Singular Integrals Close to the Weierstrass Integral
and an Associated Fourier Series Summation Method,
by L. P. Lebedeva
RUSSIAN, per, Iz Vysch Ucheb Zaved. Matemat. Vol XL,
No 3, 1964, pp 73-83.
Dept of Navy 4117/APL-JHU T 1278

Sci - Phys
Jun 65

279,613

Some Problems in the Theory of Approximating
Solutions of Differential-operator Equations in
Hilbert Space, by L. Kh. Liberman.
RUSSIAN, per, Izvestiya VUZ, Matematika, No 3(40)
1964, pp 88-92.

Dept Navy APL/JHU TG230-T508
Navy tr 5190

Sci/Mathematical Sci
Mar 67

318,529

On the Absence of Periodic Solutions Taking the
Value $x = 0$ in a Class of Differential Equations of
the Type $x' \pm x = F(x, x)$, by G. E. Popov.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Matemat, No 3,
1964, pp 120-122.
Navy 4004/APL T-1181

Sci-Math
Feb 65

274,209

Some Properties of the Cauchy Function,
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RUSSIAN, per, Izvestiya Vysshikh Uchebnykh
Zavedenii. Matematika, No 4, 1964, pp 9-11.

NTC-71-14945-12A

Navy APL/JHU T-632

Feb 72

On Summation of Sequences, by B. I. Golubov.
RUSSIAN, per, Izv VUZ. Matematika, No 4(41), 1964,
pp 47-55.
Dept of Navy APL/JHU Tr CLB-3 T-646

April 71

Dynamic Problem of the Theory of
Elasticity for a Plate From Transversal
Isotropic Material, by V. I. Makhovikov,
12 pp.

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Mate, No 4, 1964, pp 111-117. 9699402
FTD-TT-65-874

Sci - Phys
Feb 66

294,765

A Method of Approximating Differentiable Functions
by Trigonometric Polynomials, by N. M. Pavlovskii,
RUSSIAN, per, VUZ, Izv., Matematika, No 4(41),
1964, pp 118-125,
Dept of Navy APL/JHU T-634

Sci-Math
Jan 71

The Solution of Two Problems in Applied
Mathematics by Means of Special Approx-
imating Polynomials, by I. I. Eterman.

RUSSIAN, per, Izvestiya Vysshikh
Uchebykh Zavedenii. Matematika, No 4,
1964, pp 169-176.

NTC 72-10425-12A

* DEPT OF NAVY THU/APL CLS-3T-636

Apr 72

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On the Question of Specific Criteria for Estimates
of the Lengths of Subcritical Intervals, by R. G. Aliyev,
6 pp.
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No 5(42), 1964, pp 3-7.
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Sci - Math & Data Proc
Jan 65
FOR OFFICIAL USE ONLY

270,488

On the Existence of Upper and Lower Solutions of the
Cauchy Problem of a Second Order Differential
Equation, by S. A. Pak, E. S. Chichkin, 5 pp.
RUSSIAN, per, Iz Vych Ucheb Zaved, Matematika,
No 5(42), 1964, pp 91-94.
CIA/FDD X-5509

Sci - Math & Data Proc
Jan 65
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On the Possible Form of a General
Solution to Equilibrium Equations in
Curvilinear Coordinates, by V. N. Ionov,
G. A. Vvedenskiy, 10 pp.
RUSSIAN, per, Iz Vyssh Ucheb Zaved,
Matemat, No 6, 1964, pp 59-66. 9698950
FTD-TT-65-931

Sci - Math & Data
Feb 66

296,390

Cavitational Flow Around a Plane Plate, by
A. G. Terent'yev.
RUSSIAN, per, Izvestiya Vyssh Ucheb Zaved,
Matematika, No 6, 1964, pp 1591-167.
*FTD TT-65-1070

Sci-Phys
DM 65

Cavitation Flow Past a Flat Plate, by
A. G. Terent'yev, 11 pp.
RUSSIAN, per, Iz Vyssh Ucheb Zaved, Matemat.
No 6, 1964, pp 159-167. 9698950
FTD-TT-65-931

Sci - Math & Data Proc
Feb 66

296,391

NEFT, GAZ

Iz V.V.Z. Neft i GAZ

Galuzo, Yu. V.
ON THE POSSIBILITY OF THE QUANTITATIVE DE-
TERMINATION OF BORON IN ROCKS BY THE
NEUTRON GAMMA METHOD. [1963] [6]p.
Order from OTS or SLA \$1.10 63-16989

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii,
Neft' i Gaz (USSR) 1958, v. 1, no. 1, p. 41-44.

DESCRIPTORS: *Rock (Geology), *Boron, Neutrons,
Gamma rays, *Radiometers, Radioactivation analysis.

(Earth Sciences--Geology, TT, v. 10, no. 8)

63-16989

1. Galuzo, Yu. V.

Office of Technical Services

Filtration Towards a Horizontal Well of Finite Length in a Layer of Finite Thickness, by V. P. Merkulov, 11 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Nef't i Gaz, No 1, 1958, pp 73-80.

SLA 60-10988

Sci
Jan 60
Vol III, No 5

119,116

On the Parameters of Similitude at the Displacement
of One Liquid by Another and on the Influence of
Flow-Rate on the Petroleum Recovery, by S. N.
Buzinov, 6 pp.

RUSSIAN, per, iz Vysshikh Ucheb Zaved Neft i Gaz,
No 1, 1958, pp 81-87.

SLA 60-10989

119,165

Sci
Jan 60
Vol XII, No 5

A New Method for the Determination of the Effect of
~~the weight of the drill bit~~ and Its Speed on Drilling Rate, by
V. G. Yarov, 4 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Neft i Gaz,
Vol II, No 3, 1959, pp 51-54.

ATB-41134R

Sci
Jun 60
Vol III, No 5

119,141

Development of Special Grades of Carboxymethylcellulose (CMC) to Improve the Quality of Drilling (Clay) Muds and Improvement in the Technology of their Production, by K. F. Zhigach, M. Z. Finkel'shtain, T. A. Tibilova, 9 pp.

RUSSIAN, per, Izvest Vysshikh Uchebnykh Zavedeniy
Neft i Gaz, No 6, 1958, pp 31-38.

ATS-4813CR

Sci - Engr
Sep 59
Vol 2, No 1

97899

On the Problem of Production of Synthetic Fuels,
by M. G. Mamedli, M. S. Aliyev, 6 pp. UNCL

RUSSIAN, per, Iz Vysshikh Uchebnykh Zavedeniy,
Neft i Gaz, No 6, 1958, pp 73-76.

AF 1255883

USSR
Econ
Sci - Fuels
Aug 59

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The Study of the Lithology of Rocks Forming Bore-
hole Profiles From Self-Potential Data, 6 pp.

RUSSIAN, per, Iz Vysshikh Uchebnykh Zavedeniy,
Neft' i Gaz, No 7, 1958, pp 11-15.

ATS 49L30R

Sci
Dec 59
Vol 2, No 5

ATS RS-107

103,645

Korneev, Y. and Skoblo, A.
THE EFFECT OF PRESSURE ON RELATIVE VOLA-
TILITY IN PROCESSES OF EXTRACTIVE DISTIL-
LATION. [1961] 9p.

Order from ATS \$10.75

ATS-41N57R

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.
Neft' i Gaz (USSR) 1958, v. 1, no. 7, p. 57-65.

DESCRIPTORS: Pressure, Evaporation, *Petroleum.

RJ-3304

(Engineering--Chemical, TT, v. 7, no. 6)

62-12350

- I. Korneev, Y.
- II. Skoblo, A.
- III. ATS-41N57R
- IV. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Finogenov, I. S.
THE EFFECT OF MAJOR FACTORS ON THE
HARDNESS OF ARGILLACEOUS CARBONATE
ROCKS. [1961] 5p.
Order from ATS \$7.55

ATS-29N52R

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.
Nat' i Geol (USSR) 1958, v. 1, no. 8, p. 41-46.

DESCRIPTORS: *Rock, Hardness, Clays.

(Earth Sciences--Geology, TT, v. 6, no. 6)

61-25056

- I. Finogenov, I. S.
- II. ATS-29N52R
- III. Associated Technical
Services, Inc., East
Orange, N. J.

176720

Office of Technical Services

On the Effect of the Bright Strip Upon the
Strength of the Weld Metal in Resistance
Jett Welding, by A. N. Dzhefarov. UNCL

RUSSIAN, PER, IZ VUZ: Hert i Gaz, No 8,
1958, pp 115-119.

DSIR LLU RTS 1264

(12a. 6d.)

LH

SLH

60.15730

Sci - Engr; Min/Wet
Feb 60

107,210

Sep 17, 1958.

"An Inter-Vus Scientific-Technical Conference

/On New Types of Motor Fuels/" (unsigned article);

Baku, Izvestiya Vysshikh Uchebnykh Zavedeniy - Neft'

i Gaz, No 7, Jul 58, p 16.

SIR No 17 (7)

Application of the pH Method for Differentiation of
Carbonate Intervals in Oil Fields, by Y. M. Miroshni-
chenko, 7 pp.

RUSSIAN, Iz Vysshikh Uchebnykh Zavedeniy, Seriya 1
Gaz, No 8, 1958, pp 17-23.

ATS 50130R

HTS-RJ 1108

Sci

Dec 59

Vol 2, No 5

103,807

Polyakov, G. G.
EXPERIMENTAL STUDIES OF PERFORATED CASED
WELLS USING A RADIAL MODEL WITH A HOMO-
GENEOUS POROUS MEDIUM. [1961] 7p.
Order from ATS \$8.60 ATS-53N54R

Trans. of Izvest[iya] Vysshikh Ucheb[nykh] Zavedenii.
Nef' i Gaz (USSR) 1958, v. 1, no. 10, p. 63-68.

DESCRIPTORS: *Porous materials, *Wells, *Petro-
leum.

(Earth Sciences--Geology, TT, v. 7, no. 4)

61-25623

- I. Polyakov, G. G.
- II. ATS-53N54R
- III. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Certain Theoretical Aspects of the Origin of
Petroleum and the Formation of Oil Deposits,
by S. M. Apresov, 3 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Neft' i
Gaz, Vol II, No 3, 1959, pp 3-4.

ATS-08M39R

Sci
Feb 62
Vol III, No 11

182,811

Dynamics of Vertical Displacements in Thrust
Cutter Bits with Impact-Action Teeth, by H. A.
Gazarov. UNCL

RUSSEAN, per, Iz Vyschikh Ucheb Zaved, Reft 1
Gen, Vol II, 1959, pp 27-33.

ATS RJ-1755

Sci - Engr
Dec 59

103,495

A Study of the Effect of the Chief Natural
Factors on the Hardness of Sandstones and
Siltstones, by I. S. Finogenov. UNCL

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Nert 1
Gaz, No 2, 1959, pp 47-52.

ATS RJ-1760

Sci - Geogphys

Dec 59

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Effect of Pressure on the Capillary Dis-
placement of a Hydrocarbon Liquid From a
Porous Medium by Water; by A. A. Kocheshkov.
UNCL

RUSSIAN, per, Izvest Vysshikh Ucheb. Zaved,
Neft i Gaz, No 2, 1959, pp 59-65.

ATS RJ-1822

Flyu
Sci - ~~Geophysics~~
Jan 60

104,574

Mamedli, M. G. and Aliev, M. S.
SYNTHETIC FUELS PRODUCTION TECHNOLOGY
(K Voprosu o Tekhnologii Proizvodstva Sinteticheskikh
Topliv). [1961] [12]p. 5 refs. AF 1419499.
Order from OTS or SLA \$1.60

61-28351

Trans. of [Izvestiya Vysshikh Uchebnykh Zavedenii].
Nefr' i Gaz (USSR) 1959 [v. 2] no. 2, p. 67-74.

DESCRIPTORS: Industrial production, Chemical analy-
sis, *Jet engine fuels, Fractionation, *Hydrocarbons,
Decomposition, Aluminum compounds, Chlorides,
Catalysis, Catalysts, Distilling plants, Temperature,
Pyrolysis, *Fuels.

Tests showed that it is possible to produce high quality
T-1 jet fuel from the middle fractions of light thermal
cracking products. The established optimum conditions
for catalytic conversion of the hydrocarbons contained
(Engineering--Chemical, TT, v. 7, no. 7) (over)

61-28351

- I. Title: T-1 fuel
- I. Mamedli, M. G.
- II. Aliev, M. S.
- III. AF-1 419 499

Office of Technical Services

Litvinov, S. Ya. and Sarkisov, I. K.
CONTRIBUTION TO THE THEORY OF USING PIPE
AS AN ELECTRICAL COMMUNICATION CHANNEL.
[1963] 8p.
Order from ATS \$9.65

ATS-04C68R

Trans. of Izvestiya Vysshikh Uchebn[ykh] Zavedenii.
Neft' i Gaz (USSR) 1959, v. 2, no. 2, p. 99-105.

DESCRIPTORS: *Pipes, Transmission lines, Com-
munication equipment, Theory, Ducts.

(Engineering--Electrical, TT, v. 10, no. 1)

63-17118

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East Orange, N. J.

Office of Technical Services

Relationship Between Rotational Speed and
Weight on Bit in Turbodrilling Providing
Efficient Rock Disintegration, by V. S. Fedorov.
UKOL

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Gaz, No 3, 1959, pp 39-41.

ATS RJ-1777

Sci - Engr
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No 3, 1959, pp 63-66.

ATB RJ-1801

Sci - Engrt

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ATS RJ-1773

Sci - Engr

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Dec 59

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Crossflow of Fluids Between Two Adjacent Beds of
Different Permeability, by G. A. Mamedov, 8 p.

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1959, Vol II, No 4, pp 49-55.

ATB-08L35R

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Relation Between the Rate of Combustion of Individual
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V. V. Makarenkov, A. P. Meshcheryakov, et al, 111

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Neft' i Gaz,
No 4, 1959, pp 71-78.

ATIC MOL-577/III

Sci - Chem

Oct 60

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Some Problems Concerning the Dynamic Penetration
of the Teeth of a Three-Cutter Bit into Rock,
by R. A. Badalov, 7 p.

RUSSIAN, per, Is Vysishik Ucheb Zaved Neft i Gaz
1959, Vol II, No 5, pp 31-36.

ATS-85L34R

Sci
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Vol III, No 2

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Malofeev, G. E.
HEAT LOSSES TO OVERLYING AND UNDERLYING
ROCK WHEN HOT WATER IS INJECTED INTO A
LAYER (Poteri Tepla v Kroviyu i Podoshvu pri
Zakachke v Plast Goryachei Vody). [1962] [20]p.
(foreign text included) 4 refs.
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Nefi' i Gaz (USSR) 1959, v. 2, no. 5, p. 37-43.

DESCRIPTORS: Thermal diffusion, Thermal utilization,
Oils, Rock(Geology), *Heat transfer, Numerical
analysis, *Water injection, *Petroleum, Sources.

An experimental relationship between the coefficient
of effective utilization of heat η_{heat} and the parameter
 F_0 for plane-linear filtration was found. This coef-
ficient decreases with time. The greater the thickness
(Earth Sciences--Geology, TT, v. 10, no. 1) (over)

63-10211

I. Malofeev, G. E.

Office of Technical Services

Slim Bits, by S. B. Godzhayev, 8 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Neft i
Gaz, Vol II, No 5, 1959, pp 75-78.

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ATS-88L35

Sci

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Calculation of the Rate of Infiltration of Water
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Syan.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Neft i Gaz,
Vol II, No 6, 1959, pp 43-51.

ATS 2328-RJ

Sci - Engr

Sep 60

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Determination of Submerged Jet Parameters in
Hydraulic Bits, by A. K. Kozodoi,

RUSSIAN, per, Iz Vysshikh Ucheb. Zaved. Neft i Gaz,
~~Maxx~~ Vol II, No 6, 1959, pp 103-108.

ATS 2299-RJ

Sci - Engr

Sep 60

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Dating the Origin of Gas Deposit in the Berezansk
Area of Krasnodar Province, by K.N. Marchenko.
RUSSIAN, per, Iz V.U.Z. Neft'iGaz, 1959, vol. 2,
no.7, pp.9-12.
ATS_79R78R

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Aug 66

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Parameters on Penetration Rate, by E. I. Tagiev,
A. V. Kichigin,

RUSSIAN, per, Iz Vysshikh Ucheb. Zaved Neft 1
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ATS 2294-RJ

Sci - Engr

Sep 60

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Approximate Formula for the Maximum Production
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P. M. Shul'ga,

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Vol II, No 7, 1959, pp 33-40.

ATS 2327-RJ

Sci - Engr

Cap 60

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Second Pressure Restoration Period in a Well
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Inflow of Fluid, by E. I. Petrushevskiy,

RUSSIAN, per Iz Vysshikh Ucheb Zaved, Neft i
Gaz, Vol II, No 7, 1959, pp 41-48.

ATS 2325-RJ

Sci - Engr

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Effect of Temperature on the Rheological Properties
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ATS 2308-RJ

Sci - Engr

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Communication Channels for Subsurface Telemetering
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Z. B. El'yashevich, Yu. V. Grachev,

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Vol II, No 7, 1959, pp 97-102.

ATS 2314-RJ

Sci - Engr

Sep 60

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Trans. of Izv[estiya] Vysshikh Uchebn[ykh] Zavedenii.
Nef' i Gaz (USSR) 1959, v. 2, no. 7, p. 103-106.

DESCRIPTORS: *Fluid flow, *Liquids, Viscosity.

(Machinery--Transport, TT, v. 10, no. 1)

63-17110

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in Drilling With a Percussion Bit, by N. A.
Gazarov,

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ATS 2303-RJ

Sci - Engr

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Izv. Vysshikh Uchebn. Zaved., Neft' i Gaz, 2, No. 8,
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ATS/RJ-2466

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Presence of Boron Trifluoride Dihydrate,
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1959, pp 63-69.

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Sci-Chem
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Power Characteristics of Vertical Pneumatic
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Todes, 5 pp.

RUSSIAN, per, Is Vysshikh Ucheb Zaved,
Neft' i Gaz, Vol II, no 8, 1959, pp 109-
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PAVLOVA R. P.

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Evaluation de la teneur en bore de l'eau d'après sa composition minérale

Izv. Vysshikh Uchebn. Zaved., Neft' i Gaz, 2, No. 8,
p. 126 (1959)

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The Problem of Dynamic Interaction of Cone Bit
Teeth and Rock, by V. K. Bitsuta,

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Neft i
Gaz, Vol II, No 9, 1959, pp 31-35.

ATS 2301-RJ

Sci - Engr

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The Design and Arrangement of Nozzles in Jet-
Type Bits, by A. K. Kozodoi,

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Neft i
Gaz, Vol II, No 9, 1959, pp 37-40x

Sci - Engr

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ATS 2300-RJ

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the Injection of Hot Fluid, by G. E. Malofeyev,

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Neft i Gaz,
19, 1959, pp 49-55.

ATS 2320-RJ

101 - Engr

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Kh. Ya. Katsobashvili, 7 pp.

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Neft i Gaz, Vol II, No 2, 1959,
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ATS-RJ-2394

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Rotational Speed of Turbo-, Electro-, and
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RUSSIAN, per, Iz Vysshikh Ucheb Zaved Neft i
Gaz, Vol II, No 9, 1959, pp 117-121.

ATB 2293-RJ

Sci - Engr

Sep 60

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ATB-9441R

ATB/PJ-2745

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Apr 62

Vol IV, No 6

Chernozhukov, N. I. and Rogacheva, L. M.
CATALYTIC UPGRADING OF LUBE OIL DISTIL-
LATES FROM CRUDES OF THE SECOND BAKU.
[1963] 8p

Order from: ATS \$10.00

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Trans. of Izv[estiya] Vysshikh Uchebn'ykh
Zavedenii. Neft' i Gaz (USSR) 1959, v. 2, no. 10,
p. 45-51.

DESCRIPTORS: *Oils, *Petroleum Distillation,
Catalysts.

(Materials--Lubricants, TT, v. 11, no. 10)

TT-64-12406

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